

We claim:

1. A layered composite material which comprises a substrate made
5 from a thermoplastic polymer, and comprises an intermediate
layer arranged thereupon and a decorative layer applied to
the intermediate layer, where the decorative layer is
composed of a chromed metal.
- 10 2. A layered composite material as claimed in claim 1, where a
heat-cured layer has also been applied to the decorative
layer.
- 15 3. A layered composite material as claimed in claim 1, where the
substrate is composed of polypropylene.
4. A layered composite material as claimed in claim 1, where the
intermediate layer is composed of a thermoplastic.
- 20 5. A layered composite material as claimed in claim 1, where the
intermediate layer and the substrate are composed of the same
thermoplastic.
- 25 6. A layered composite material as claimed in claim 1, the total
thickness of which is from 0.5 to 100 mm, at least 80% of
which is made up by the substrate.
- 30 7. A process for producing a layered composite material as
claimed in claim 1, which comprises providing the materials
for the intermediate layer, the decorative layer and, if
used, the heat-cured layer, each in the form of thin sheets,
and then bonding these at from 150 to 300°C with the material
for the substrate.
- 35 8. A process as claimed in claim 7, wherein the decorative layer
is shaped in three dimensions after heat-treatment at from
150 to 300°C.
- 40 9. A process as claimed in claim 7, where the bonding to the
intermediate layer, to the decorative layer and to the
heat-cured layer, if used, and to the substrate takes place
by injection molding.
- 45 10. A process as claimed in claim 7, wherein the bonding to the
intermediate layer, to the decorative layer and to the
heat-cured layer, if used, and to the substrate takes place

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by extrusion.

11. A process as claimed in claim 7, wherein the bonding to the intermediate layer, to the decorative layer and to the

5 heat-cured layer, if used, and to the substrate takes place by hot-press molding.

12. A method of using the layered composite material as claimed in claim 1 as a reflecting part of a household device, of a
10 piece of furniture or of a molding in the electrical, construction or automotive industry or in the health sector.

13. A method of using the layered composite material as claimed in claim 1 as an insulating part of a household device, of a
15 piece of furniture or of a molding in the electrical, construction or automotive industry or in the health sector.

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